FIG. 1

FIRST PRINCIPLE DIAGRAM OF THE INVENTION

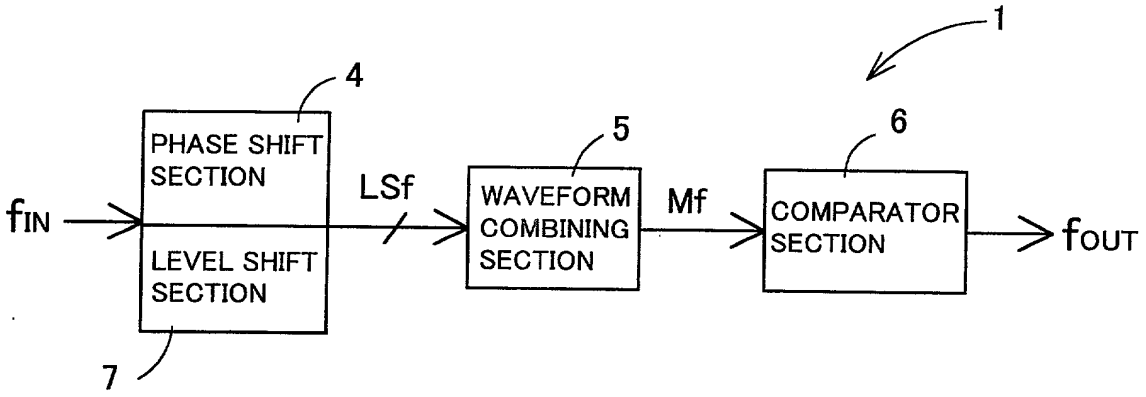

FIG. 2

SECOND PRINCIPLE DIAGRAM OF THE INVENTION

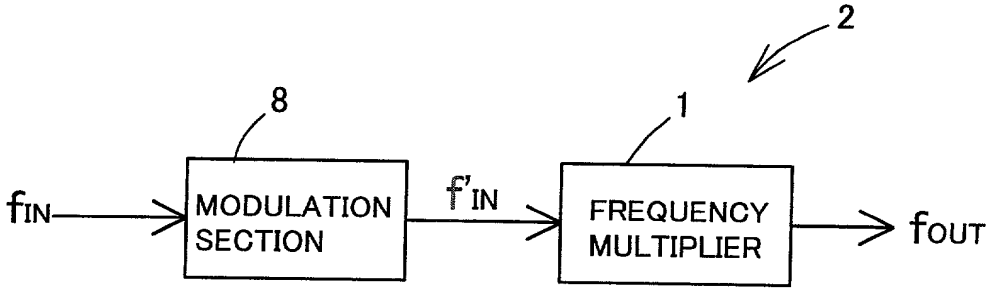

FIG. 3

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A FIRST EMBODIMENT

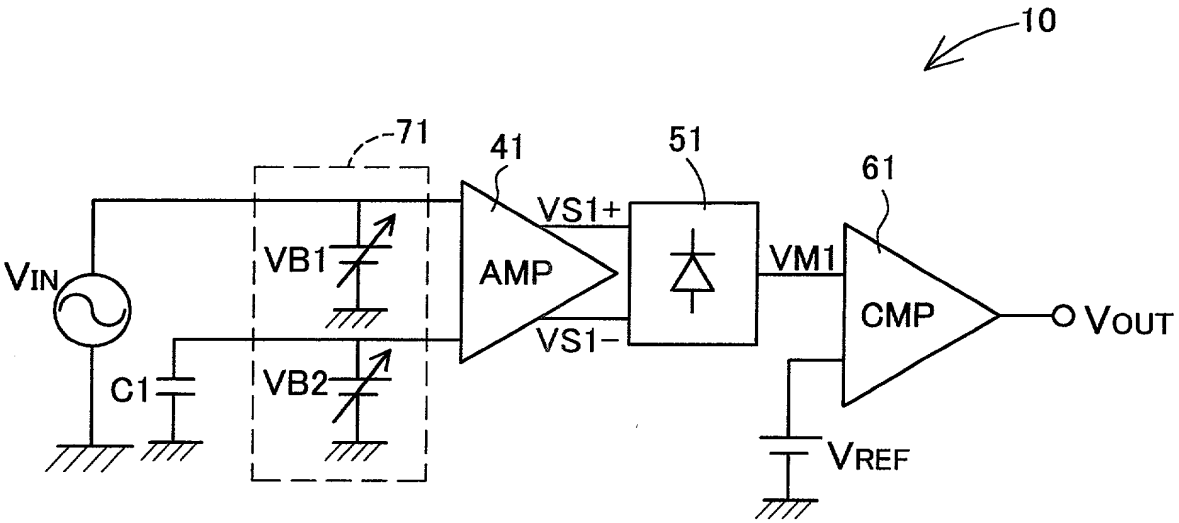

FIG. 4

FREQUENCY-MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.3

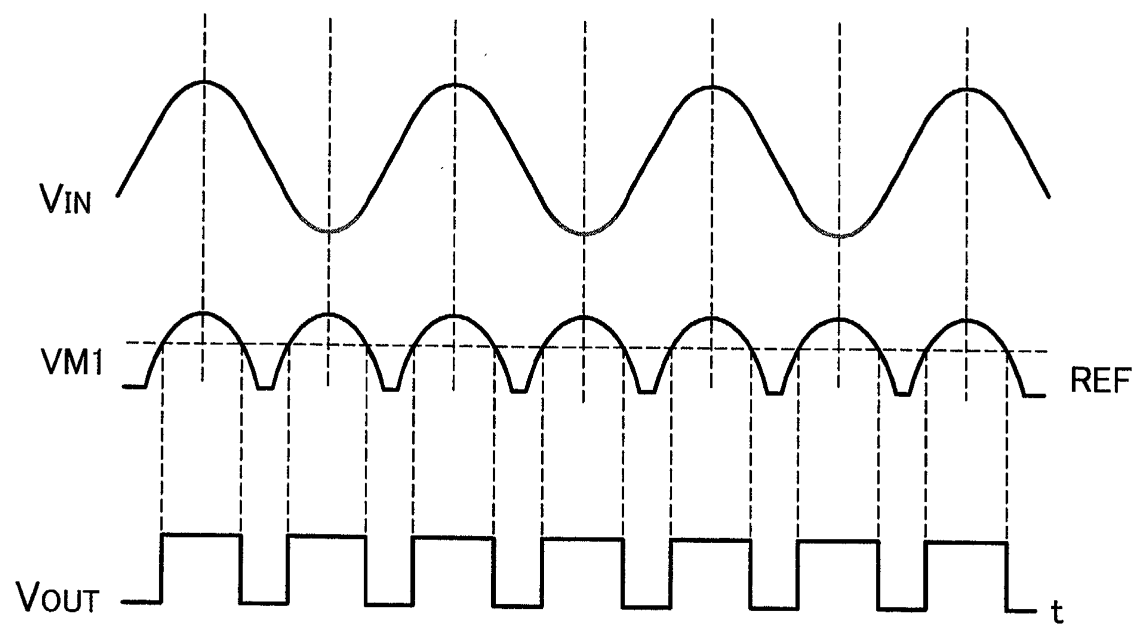

FIG. 5

CIRCUIT DIAGRAM OF A FREQUENCY MULTIPLIER AS A MORE SPECIFIC EXAMPLE ACCORDING TO THE FIRST EMBODIMENT

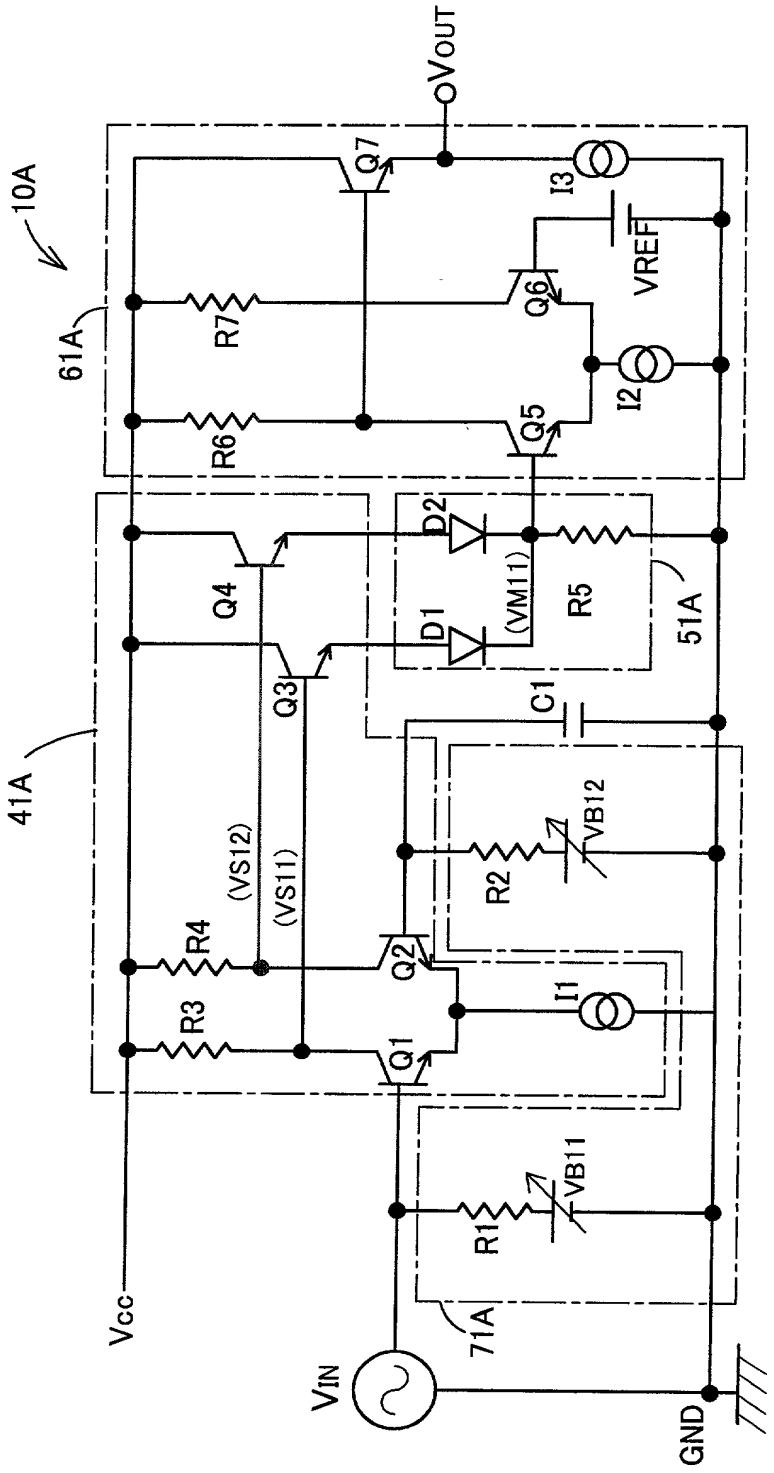

FIG. 6

FREQUENCY-MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.5 (VB11 = VB12)

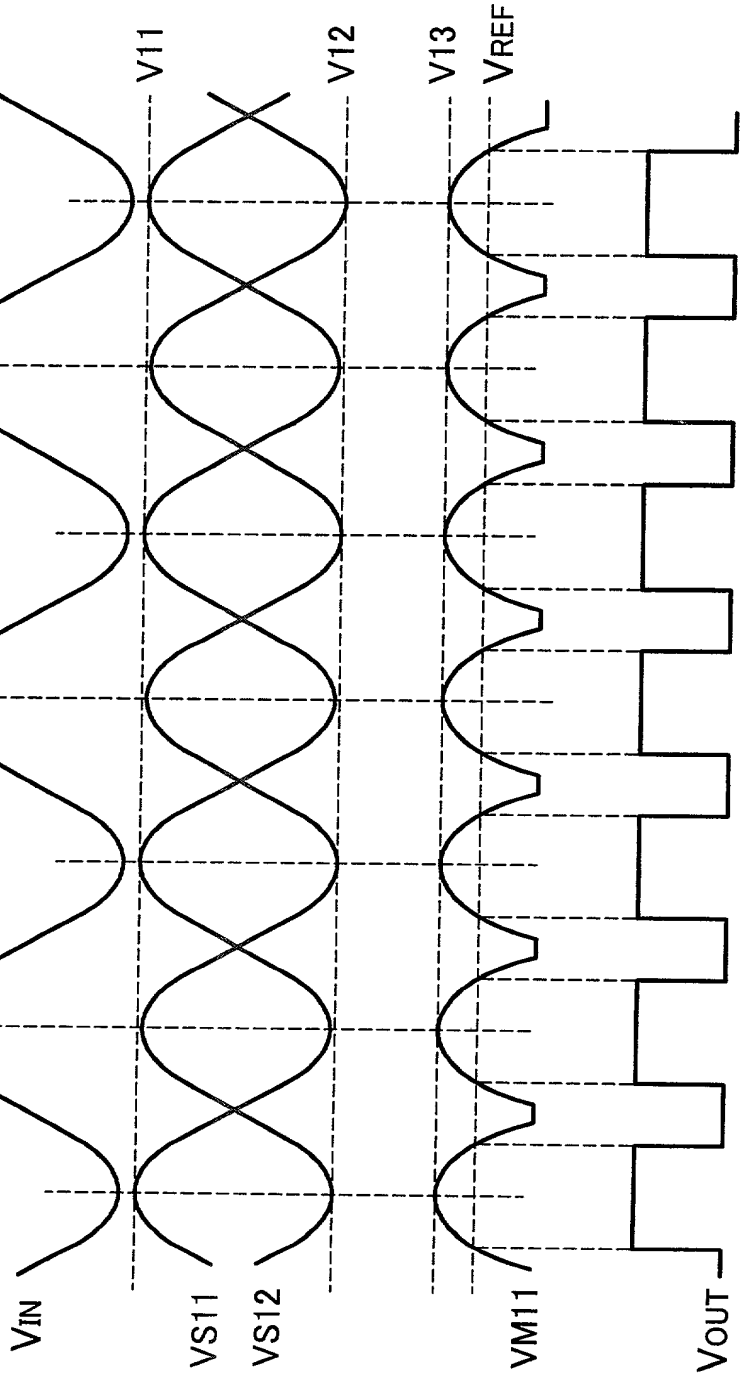

FIG. 7

FREQUENCY-MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.5 (VB11 < VB12)

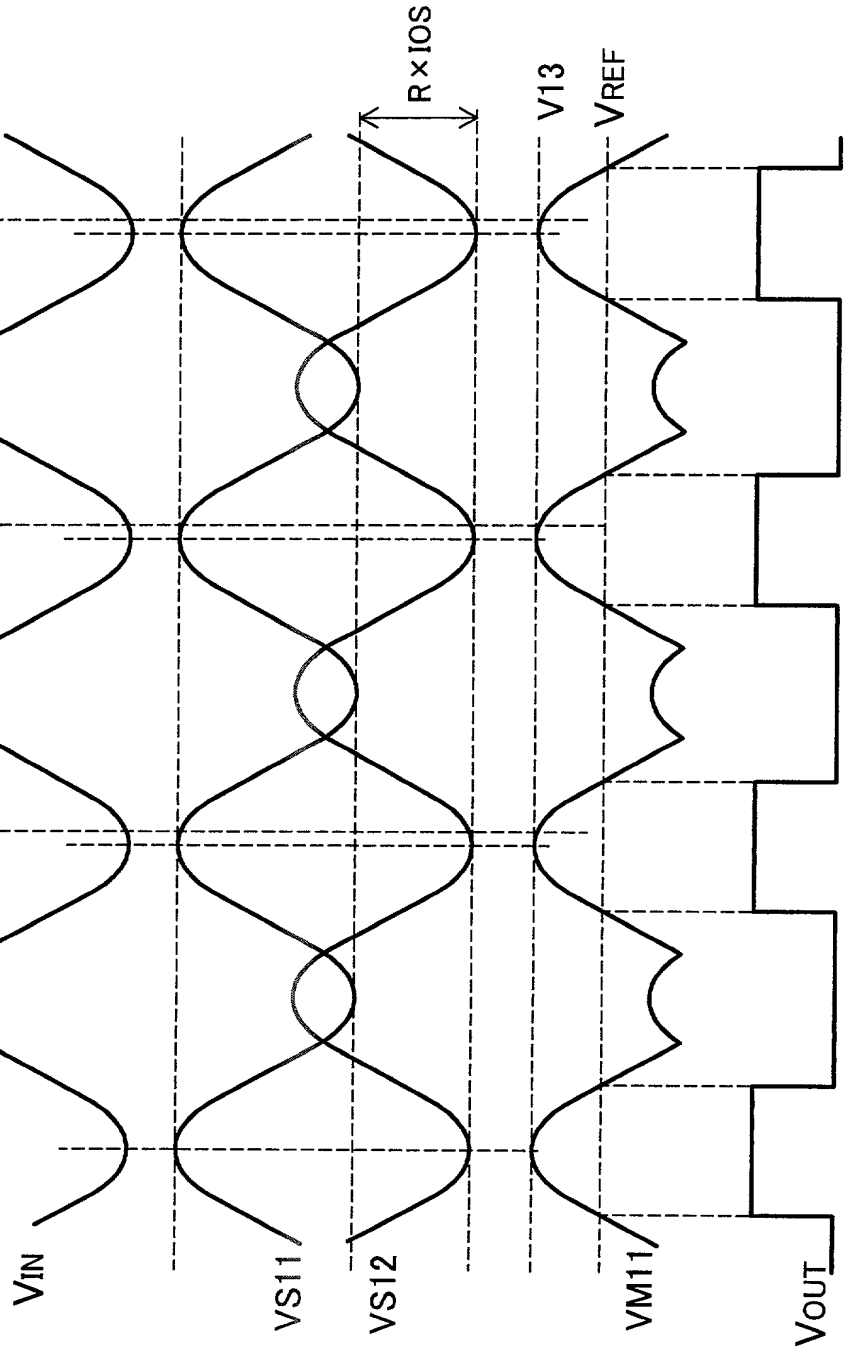

FIG. 8

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A SECOND EMBODIMENT

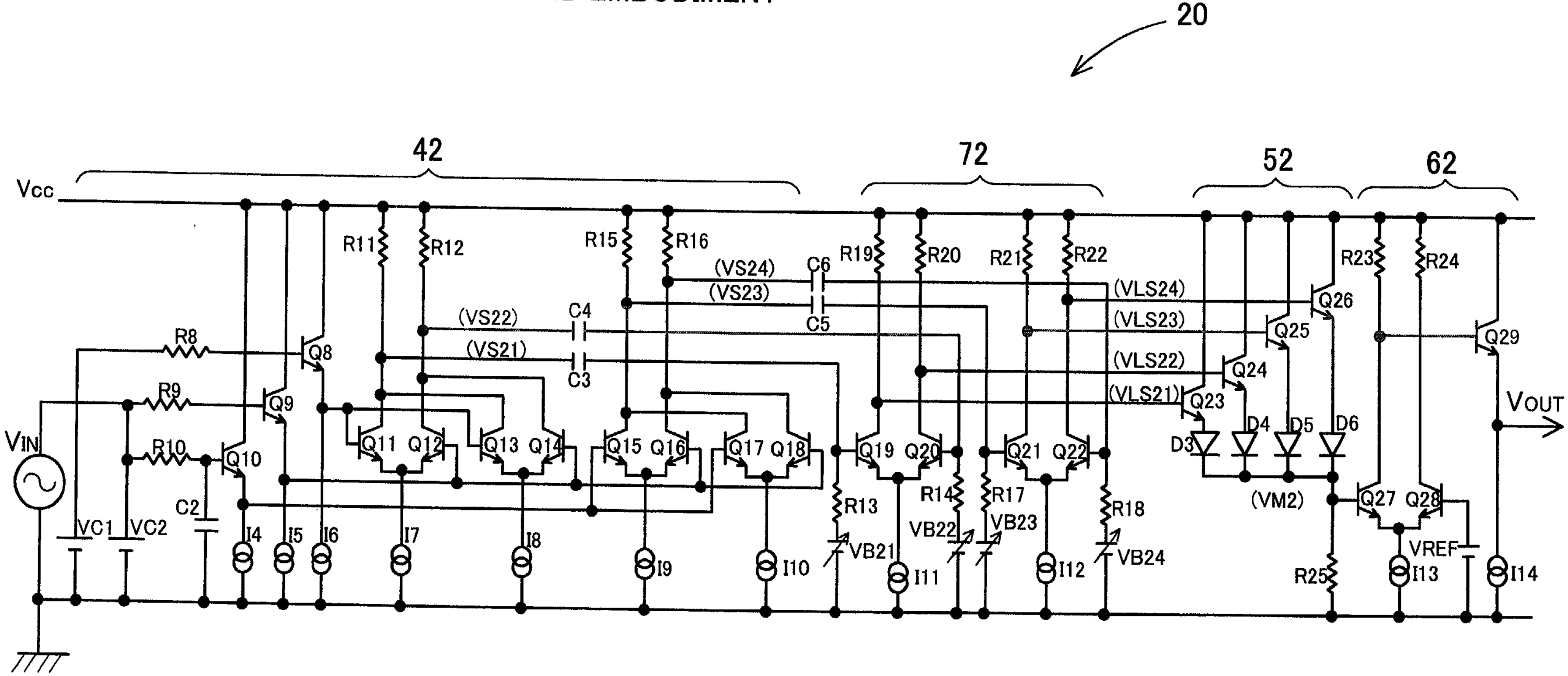

FIG. 9

FREQUENCY- MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.8
(VB21 = VB22 = VB23 = VB24)

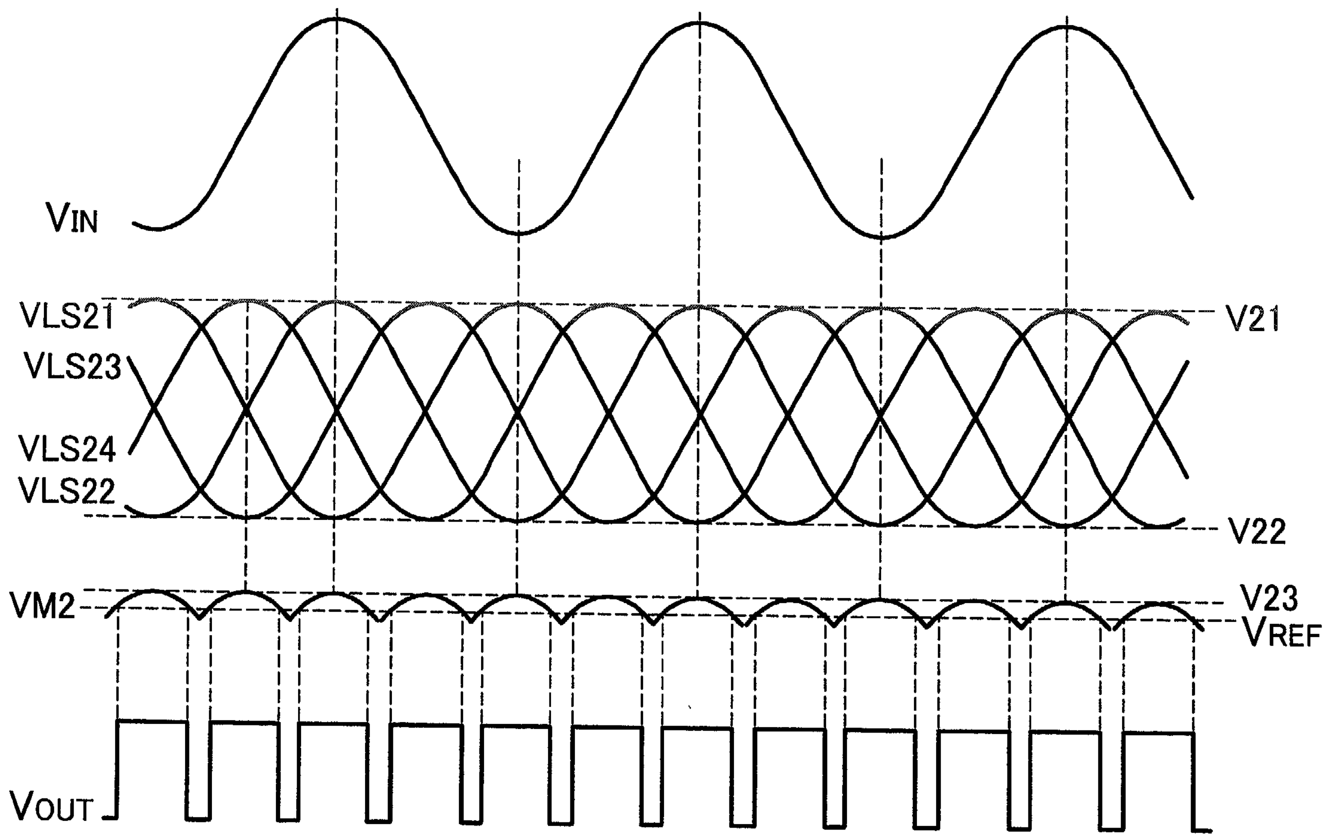

FIG. 10

FREQUENCY- MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.8
(VB21 = VB22 = VB24 < VB23)

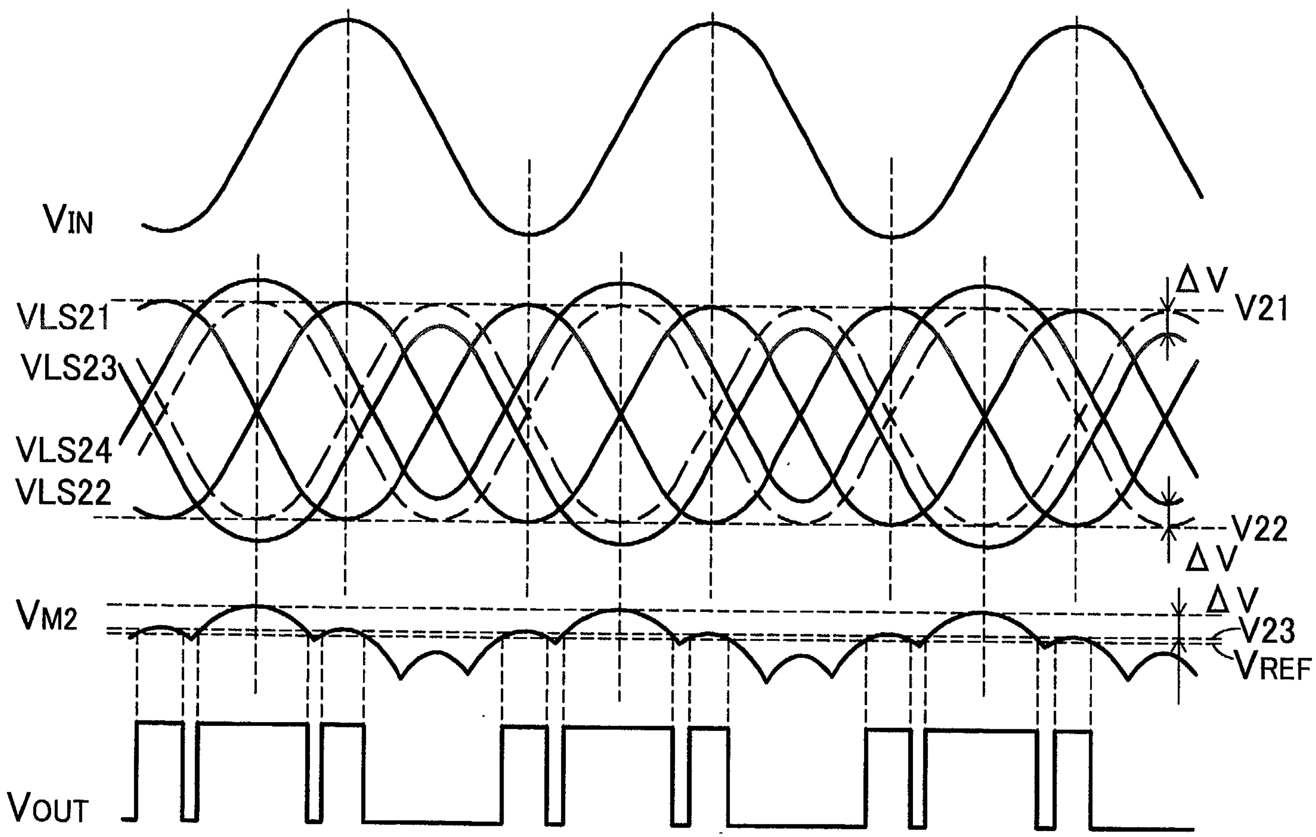

FIG. 11

FREQUENCY- MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.8
(VB21 = VB24 > VB22 = VB23)

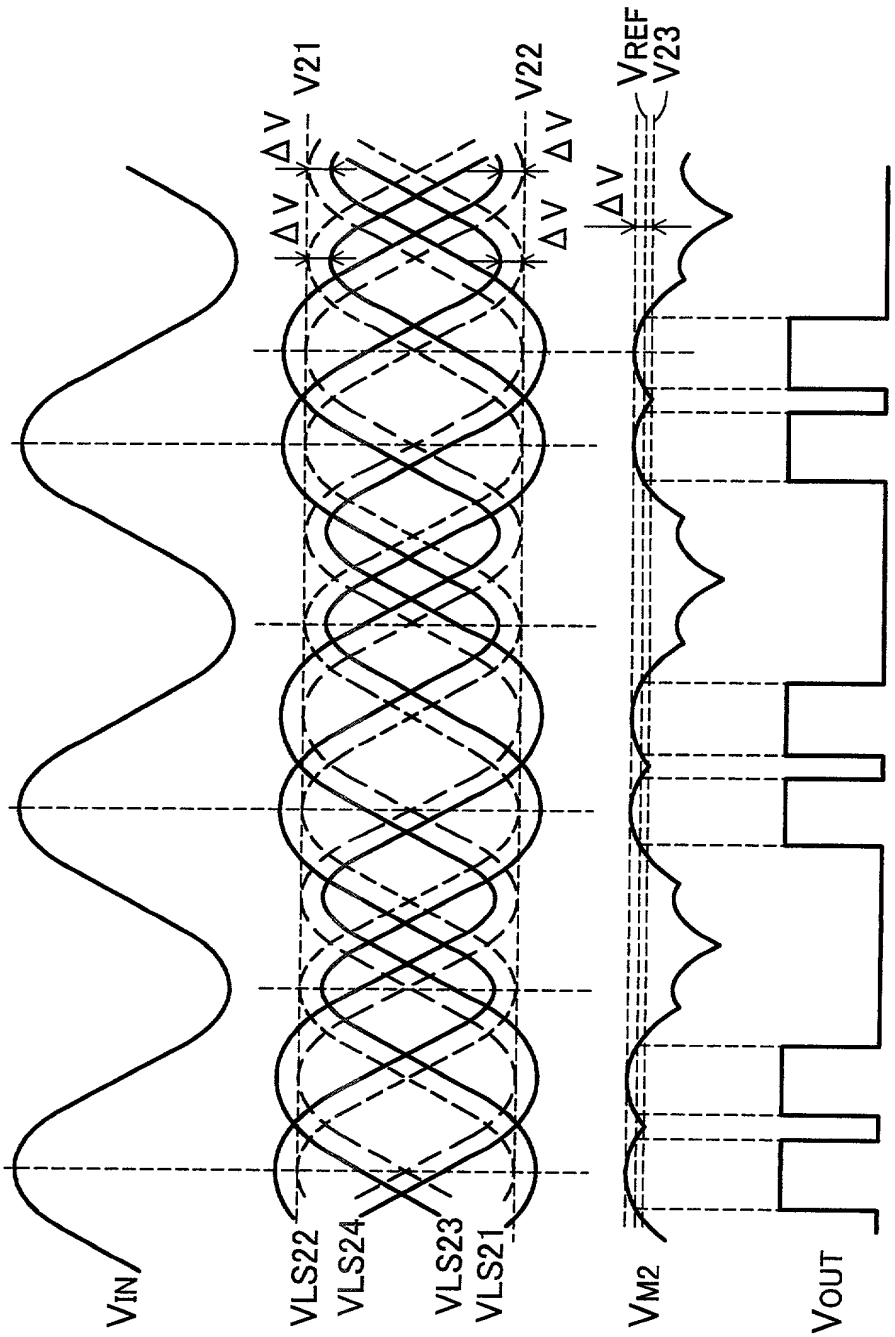

FIG. 12

FREQUENCY- MULTIPLIED WAVEFORM PRODUCED BY THE FREQUENCY MULTIPLIER OF FIG.8
(VB21 = VB23 = VB24 > VB22)

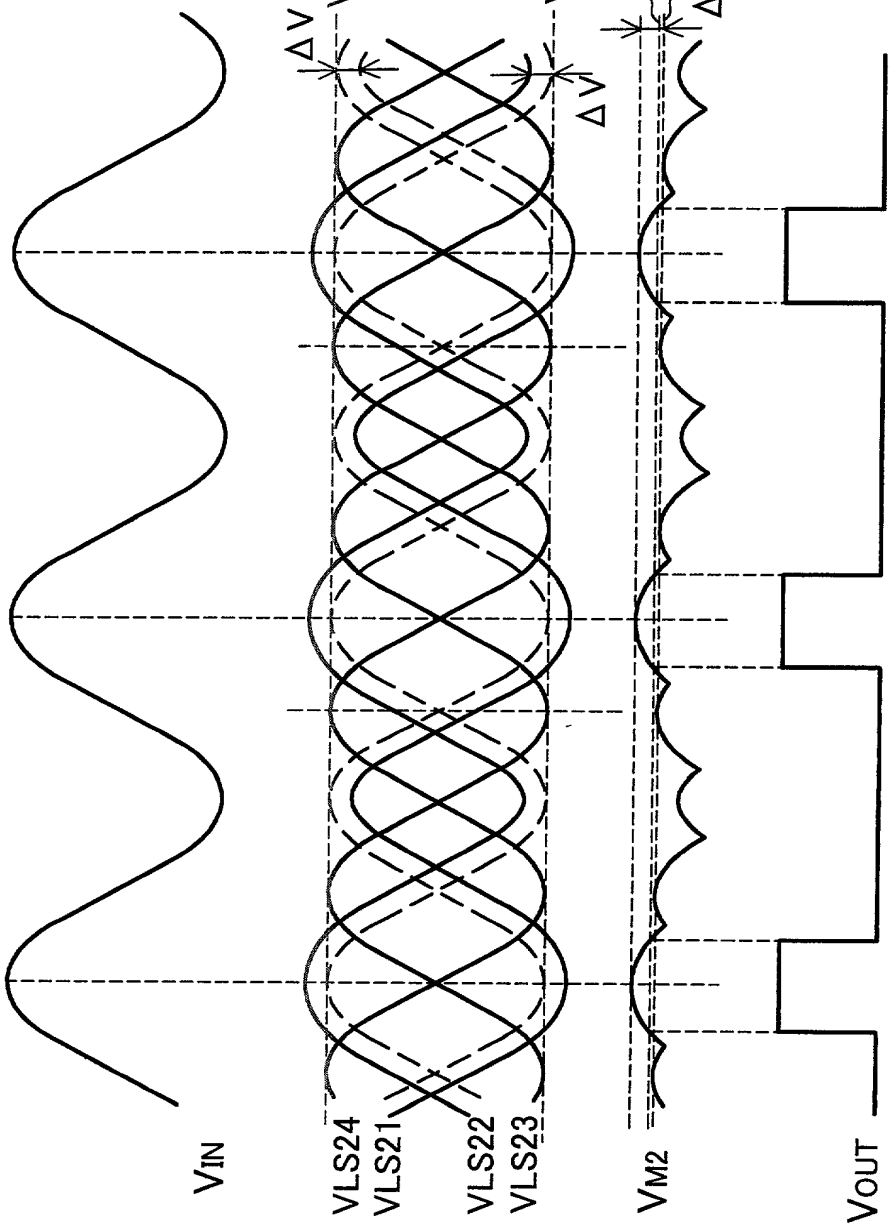

FIG. 13

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A THIRD EMBODIMENT

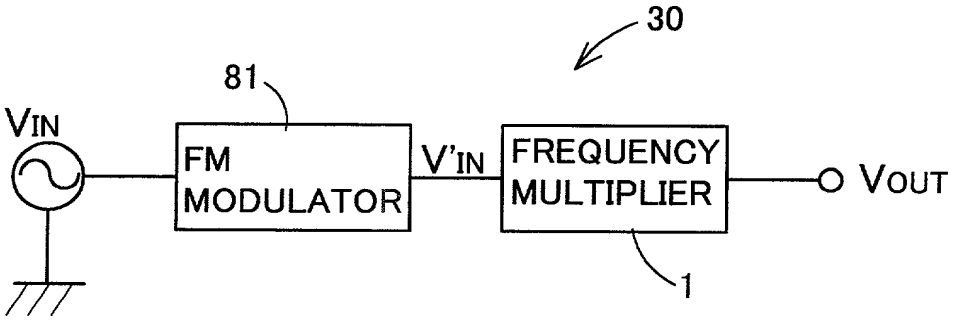

FIG. 14

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A FOURTH EMBODIMENT

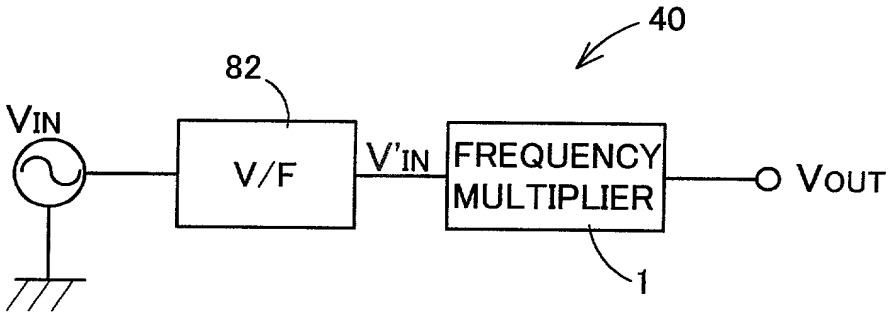

FIG. 15 PRIOR ART

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A FIRST CONVENTIONAL TECHNIQUE

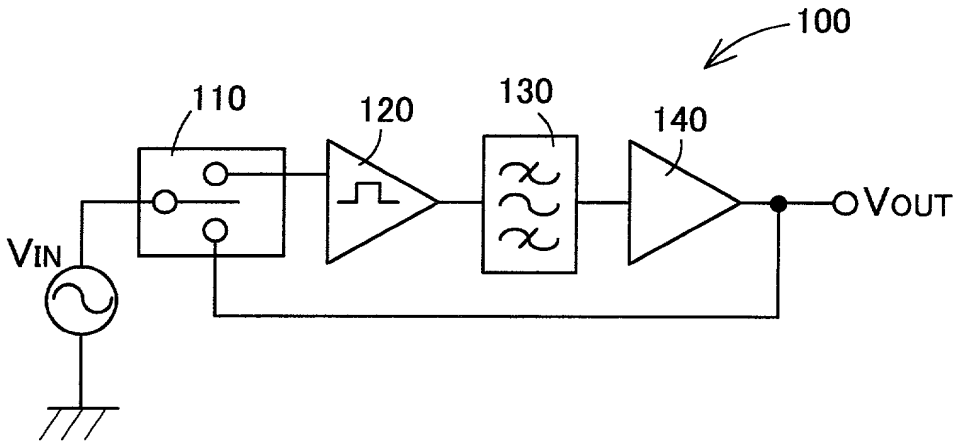

FIG. 16 PRIOR ART

CIRCUIT BLOCK DIAGRAM OF A FREQUENCY MULTIPLIER ACCORDING TO A SECOND CONVENTIONAL TECHNIQUE

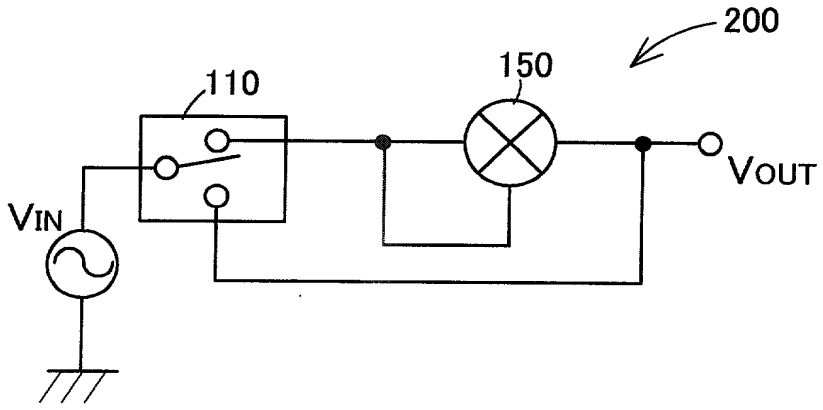

FIG. 17 PRIOR ART

CIRCUIT DIAGRAM OF A MIXER CIRCUIT (FREQUENCY DOUBLER CIRCUIT) ACCORDING TO THE SECOND CONVENTIONAL TECHNIQUE